

IN THE SPECIFICATION:

At page 1, after the title and prior to line 4, please insert the following new paragraph:

Cross-Reference to Related Application

This application is the U.S. National Stage of International Application Number PCT/FI02/00512 filed 13 June 2002 and published in English on 24 December 2003 under International Publication Number WO 03/107087 A1.

At page 1, prior to line 4, please add the following new heading.

Field of the Invention

At page 1, please amend the paragraph beginning on line 6 as follows:

The present invention relates to electrically controlled light modulator ~~devices according to the preamble of the appended claim 1.~~devices. The present invention relates also to display devices comprising a plurality of said electrically controlled light modulator devices.

At page 1, prior to line 7, please add the following new heading.

Background of the Invention

At page 4, prior to line 5, please add the following new heading.

Summary of the Invention

At page 4, please delete the paragraph beginning on line 20 through line 22.

~~To attain these purposes, the electrically controlled light modulator device according to the invention is primarily characterized in what will be presented in the characterizing part of the independent claim 1.~~

At page 4, please amend the paragraph beginning on line 32 as follows:

The invention has the following two principal ~~embodiments~~:embodiments: An in-plane-type enhancement electrode configuration and a sandwich-type enhancement electrode configuration.

At page 5, please add the following new paragraphs prior to line 15:

According to a first aspect of the present invention, there is an electrically controlled light modulator device comprising at least one cell, said cell comprising at least
two deformable dielectric layers which meet at an interface, at least one of
said layers consisting of viscoelastic relief forming gel,
— a first support electrode structure arranged on one side of the dielectric layers,
— a second signal electrode structure arranged on the other side of the dielectric layers and opposite to the support electrode structure, and
— signal means for applying signal voltage between the support and signal electrode structures to generate electric field passing through the two deformable dielectric layers in order to create surface reliefs on the viscoelastic gel layer,

- a third enhancement electrode structure composed of one or more separate electrode zones arranged in the proximity of the first signal electrode structure, and
- enhancement signal means for applying enhancement signal voltage between the enhancement electrode structure and the signal electrode structure in order to locally concentrate the electric field passing through the two deformable dielectric layers and therefore arranged to enhance the amplitude of the deformation of the viscoelastic gel layer.

According to a second aspect of the present invention, there is a display device comprising a plurality of electrically controlled light modulator devices, said light modulator devices comprising at least one cell, said cell comprising at least

- two deformable dielectric layers which meet at an interface, at least one of said layers consisting of viscoelastic relief forming gel,
- a first support electrode structure arranged on one side of the dielectric layers,
- a second signal electrode structure arranged on the other side of the dielectric layers and opposite to the support electrode structure, and
- signal means for applying signal voltage between the support and signal electrode structures to generate electric field passing through the two deformable dielectric layers in order to create surface reliefs on the viscoelastic gel layer,
- a third enhancement electrode structure composed of one or more separate electrode zones arranged in the proximity of the first signal electrode structure, and
- enhancement signal means for applying enhancement signal voltage between the enhancement electrode structure and the signal electrode structure in order to locally concentrate the electric field passing through the two deformable dielectric layers and therefore arranged to enhance the amplitude of the deformation of the viscoelastic gel layer.

At page 5, prior to line 20, please add the following new heading.

Brief Description of the Drawings

At page 6, prior to line 27, please add the following new heading.

Detailed Description of the Invention

At page 14, please amend the paragraph beginning on line 1 as follows:

Within a single light modulator cell or corresponding primary optical unit_the support electrode structure, the signal electrode structure and also the enhancement electrode structure may be each composed of one or more separate electrode zones.